

### ABSTRACT OF THE INVENTION

A interactive system for chemical and biological testing with the instant data processing and information analysis capability. The system utilizes a specially designed bio-disc and an optical reader attached to a computer to deliver a wide range of tests, such as clinical laboratory diagnostic tests, biological warfare agent detection, forensic DNA tests, and food and water contamination tests, to a remote location.

The test data are analyzed by a central data processing unit connected to the computer through a network, and the result is distributed to authorized users through the network. The interactive system also offer users enhanced information and

additional relevant products at the point of need.